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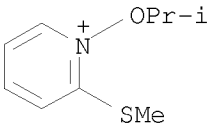
L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:192813 CAPLUS
DOCUMENT NUMBER: 148:426712
TITLE: Reaction of 2-alkylthiopyridinium salts with active methylene compounds
AUTHOR(S): Hoshino, Masato; Taguchi, Tsuyoshi; Nakano, Hiroto; Tomisawa, Hiroshi; Matsuzaki, Hisao; Fujita, Reiko
CORPORATE SOURCE: Tohoku Pharmaceutical University, 4-4-1, Komatsushima, Aoba-ku, Sendai, Miyagi, 981-8558, Japan
SOURCE: Heterocycles (2007), 74, 791-802
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 148:426712
AB Reactions between active methylene compds. and 2-alkylthio-1-alkylpyridinium iodides in the presence of NaH occurred at the 2- or 4-position. In contrast, 2-chloro-1-methylpyridinium iodide reacted at the 2-position, whereas 6-chloro-2-methylthiopyridinium iodide reacted at the 6-position to yield only one product. Chemoselectivity of the pyridinium salt was calculated using MO calcns.
IT 1016900-40-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of alkylidenedihydropyridines by coupling of (alkylthio)pyridinium salts with active methylenes)
RN 1016900-40-5 CAPLUS
CN Pyridinium, 1-(1-methylethoxy)-2-(methylthio)-, iodide (1:1) (CA INDEX NAME)



● I^-

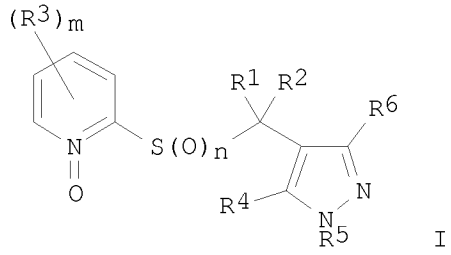
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:730515 CAPLUS
DOCUMENT NUMBER: 147:118217
TITLE: Preparation of 2-(pyrazolylmethanesulfonyl)pyridine N-oxides and 2-(pyrazolylmethanesulfinyl)pyridine N-oxides as herbicides and plant growth regulators
INVENTOR(S): Dietrich, Hansjoerg; Helmke, Hendrik; Hoffmann, Michael Gerhard; Kehne, Heinz; Hills, Martin; Rosinger, Chris; Feucht, Dieter
PATENT ASSIGNEE(S): Bayer CropScience G.m.b.H., Germany
SOURCE: Ger. Offen., 43 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent

LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102005063066	A1	20070705	DE 2005-102005063066	20051229

PRIORITY APPLN. INFO.: DE 2005-102005063066 20051229
OTHER SOURCE(S): MARPAT 147:118217
GI



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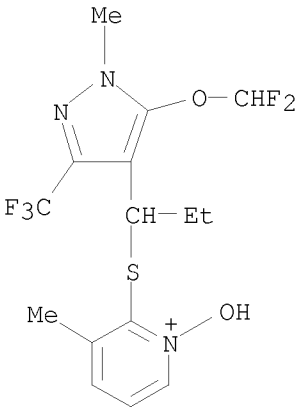
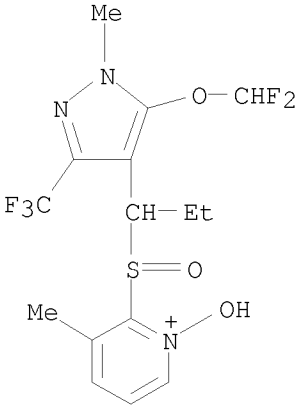
AB Title compds. [I; n = 0-2; m = 0-4; R1, R2 = H, halo, (substituted) alkyl; R3 = halo, NO2, cyano, amino, OH, (substituted) alkyl; R4 = H, cyano, (halo)alkylthio, (halo)alkylsulfinyl, (halo)alkylsulfonyl, (substituted) alkoxy; R5 = H, (substituted) (halo)alkyl, (halo)alkoxycarbonyl, benzyl; R6 = cyano, halo, (halo)alkylthio, (halo)alkylsulfinyl, (halo)alkylsulfonyl, (substituted) cycloalkyl], were prepared Thus, 2-[([5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl)thio]pyridine N-oxide (preparation given) in CH2Cl2 was dropwise treated with 3-chloroperbenzoic acid under ice-bath followed by stirring for 3 h at room temperature to give 91% 2-[([5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl)sulfonyl]pyridine N-oxide and 4% 2-[([5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl)sulfinyl]pyridine N-oxide. I at 600 ppm were said to show very strong pre- and postemergent herbicidal activity.
IT 1064689-69-5 1064689-70-8
RL: PRPH (Prophetic)
(Preparation of 2-(pyrazolylmethanesulfonyl)pyridine N-oxides and 2-(pyrazolylmethanesulfinyl)pyridine N-oxides as herbicides and plant growth regulators)
RN 1064689-69-5 CAPLUS
CN Pyridinium, 2-[[1-[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]propyl]thio]-1-hydroxy-3-methyl- (CA INDEX NAME)



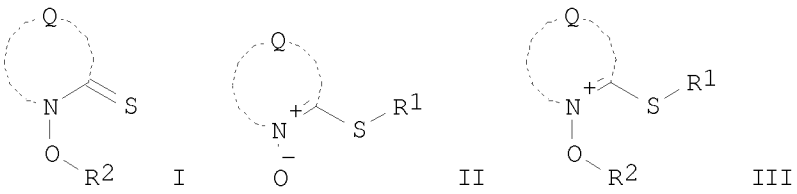
RN 1064689-70-8 CAPLUS
CN Pyridinium, 2-[[1-[5-(difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]propyl]sulfinyl]-1-hydroxy-3-methyl- (CA INDEX NAME)



L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:142720 CAPLUS
DOCUMENT NUMBER: 146:229181
TITLE: Preparation of O-alkylated cyclic thiohydroxamic acids
INVENTOR(S): Nakamura, Tomoaki; Fukunaga, Hirofumi; Nakamura, Koki
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007031409	A	20070208	JP 2005-221085	20050729

PRIORITY APPLN. INFO.: JP 2005-221085 20050729
OTHER SOURCE(S): MARPAT 146:229181
GI



I II III

AB Title compds. I [Q = atom. group forming thiohydroxamic acid group; R2 = (un)substituted alkyl], useful as photoreactive compds. for photoresists, photoimaging, etc., are prepared by converting II (Q = same as above; R1 = removable substituent) into III (Q, R1, R2 = same as above) and removing R1 from III. Thus, a THF solution of 1-hydroxy-1H-pyridine-2-thione and PhSO2CH:cH2 was treated with Et3N at 60° for 12 h to give 93% 2-[2-(phenylsulfonyl)ethylthio]pyridine 1-oxide. This compound and p-MeC6H4SO3Ag were dissolved in MeCN, treated with 4-BrCH2C6H4CO2Me at 25° for 6 h, and heated to 50° to give 95% III (Q = CH:CHCH:CH, R1 = CH2CH2SO2Ph, R2 = CH2C6H4CO2Me-4). This salt was suspended in MeCN and treated with DBU at 25° to give 85% I (Q = CH:CHCH:CH, R2 = CH2C6H4CO2Me-4).

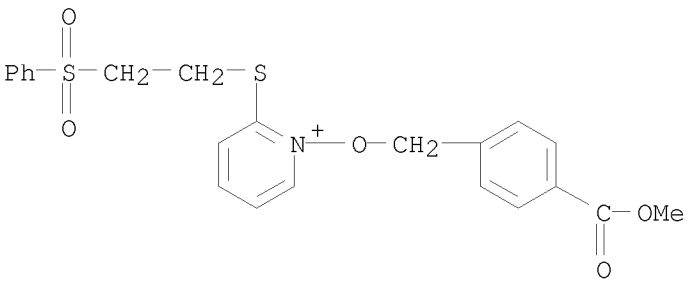
IT 924635-20-1P 924635-23-4P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of O-alkylated cyclic thiohydroxamic acids from S-protected mercaptopyridine oxides)

RN 924635-20-1 CAPLUS

CN Pyridinium, 1-[[4-(methoxycarbonyl)phenyl]methoxy]-2-[[2-(phenylsulfonyl)ethyl]thio]-, 4-methylbenzenesulfonate (1:1) (CA INDEX NAME)

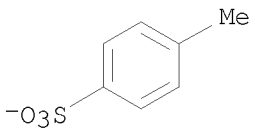
CM 1

CRN 924635-19-8
CMF C22 H22 N O5 S2

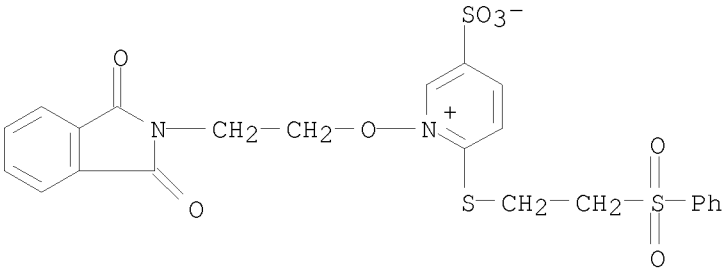


CM 2

CRN 16722-51-3
CMF C7 H7 O3 S



RN 924635-23-4 CAPLUS
CN Pyridinium, 1-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethoxy]-6-[[2-(phenylsulfonyl)ethyl]thio]-3-sulfo-, inner salt (CA INDEX NAME)



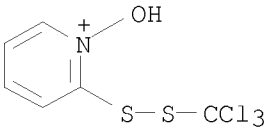
L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1960:44745 CAPLUS
DOCUMENT NUMBER: 54:44745
ORIGINAL REFERENCE NO.: 54:8857g-h
TITLE: 1-Oxido-2-pyridyl trichloromethyl disulfide
INVENTOR(S): Rockett, Jack; Brown, Bernard B.
PATENT ASSIGNEE(S): Olin Mathieson Chemical Corp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2922790		19600126	US 1958-707096	19580106

AB The title compound (I) and its salts are useful as pesticides and fungicides. Cl3CSCl (88.3 g.) in 100 cc. Et2O is treated dropwise with 60.3 g. 2-mercaptopyridine 1-oxide in 500 cc. Et2O at 20-34° to form a yellow precipitate, the mixture refluxed 2 hrs., cooled, filtered, and the fine yellow residue washed with Et2O and dried to give 133.2 g. I.HCl, m. 85-119°. I.HCl (100 g.) is triturated with 1500 cc. water at 30-5° 0.5 hr., cooled, and filtered to give 84.8 g. I, m. 99° (aqueous MeOH). I may be prepared in one step but in lower yield by addition of pyridine to the original reaction mixture Fungicidal data are given.

IT 1079397-29-7P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(1-Oxido-2-pyridyl trichloromethyl disulfide)

RN 1079397-29-7 CAPLUS
CN Pyridinium, 1-hydroxy-2-[(trichloromethyl)dithio]-, hydrochloride (1:1) (CA INDEX NAME)



● HCl

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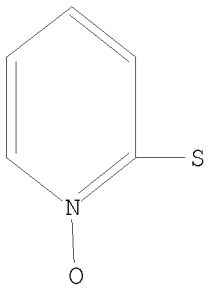
(FILE 'HOME' ENTERED AT 10:03:06 ON 13 FEB 2009)

FILE 'REGISTRY' ENTERED AT 10:03:31 ON 13 FEB 2009
L1 1 S ZINC PYRITHIONE/CN
L2 STRUCTURE UPLOADED
L3 0 S L2
L4 STRUCTURE UPLOADED
L5 1 S L4
L6 10 S L4 FULL

FILE 'CAPLUS' ENTERED AT 10:10:17 ON 13 FEB 2009
L7 4 S L6

=> d l4
L4 HAS NO ANSWERS
L4 STR



G1 Cu,Zn

Structure attributes must be viewed using STN Express query preparation.

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